

Unfinished problems recorded in work outlines

A) COMPATIBILITY PROGRAM

1. Hfr, F+, F-... mutants
2. Kinetic studies; physiological conditions: Hfr crosses and F+ transduction, also bearing on cell-free isolation of latter (TON)
3. Mechanism of aeration effect
4. Light (UV?)
5. Hayes SM experiments, confirmation? Relation to segregation ratios
6. Foreign F+ agents; basis of instability
7. Infect Hfr with F+ (especially in crosses)?
8. Segregation of Hfr in relation to Mal (review current state)
9. Consistent map?
10. Cytology: vital markers; misc. non-nuclear stains
11. Agglutination physiology (acid agglut?)

WG comparisons: lambda and ^{e.o.p.}(adsorption...) (EML)
Galduction. (MLM)

B) Misc.

1. Actinos., purples?
2. Summarize WG peculiarities; other coli strains..
3. Verify fertility of aerogenoid wg (568?)
4. Will Fried study succinate adaptation?
5. WG-49 tryptophane requirement
6. Review doubtful 776. Fertility chart (HLB)
7. Lyophil (esp. accumul. diploids) (HLB)
8. lambda-sensitive homozygotes by partial segregation
9. AEC program- effects on diploids; lethals
10. WG mutant hunts;
11. Complete linkage analysis of another strain which? (HLB)
12. Mutable Mal system
13. Lac genetics. (slpw alleles)
14. V₁ genetics. (review discrepancy with Haas)
15. Unstable mutations with mustard?
16. MNQ: Colwell effect, and penicillin substitute
17. Fertility of "pathogenic" colis? *but not 055: 0111: ...*
18. Mutable S^r (PDS)

C) SALMONELLA

(See BADS...)

1. Prep'n for Chamblee: FAs (also coli, techniques)
2. Sera and strains needed to study phase variation genetic basis
3. Reisolate Chi phages
4. Mechanism of Vi adaptation (cf T1h/Fredrick)
5. L-forms (filtrability)
6. Salmonella O,E groups (Spicer)
7. Linked transductions (Plough?)
8. Unstable transductions (Gal)
9. Salmonella SW603 O→H *spont. induced mutations?*